



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 S.W. 26th Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590, F (786) 315-2599
www.miamidade.gov/pera/

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "350IR" Outswing Wet Glazed Aluminum Storefront Door – L.M.I.

APPROVAL DOCUMENT: Drawing No. 1460, titled "350IR Outswing Aluminum Storefront Doors – L.M.I. Wet Glazed", sheets 1 thru 10 of 10, prepared by W. W. Schaefer Engineering and Consulting, P. A., dated 11/10/05 with the latest revision "D1" dated 02/11/11, signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LIMITATIONS: See design pressure limitations on sheet 4 of 10, where the lower design pressure of all applicable tables shall control.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series and following statement: "Miami-Dade County Product Control Approved" unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 11-0228.04 and consists of this page 1, evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J. Gascon
3/6/12

NOA No. 11-1013.03
Expiration Date: February 08, 2017
Approval Date: March 15, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA No. 11-0228.04)
2. Drawing No. 1460, titled "350IR Outswing Aluminum Storefront Doors -L.M.I. Wet Glazed", sheets 1 through 10 of 10, prepared by W. W. Schaefer Engineering and Consulting, P. A., dated 11/10/05 with the latest revision "D1" dated 02/11/11, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No. 11-0228.04)

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront, prepared by Hurricane Testing Laboratory, LLC, Test Report No. HTL-G049-0804-10, dated 10/26/10, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 11-0228.04)
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
4) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront, prepared by Hurricane Testing Laboratory, LLC, Test Reports No.'s HTL-G049-0201-09 and HTL-G049-0310-08, dated 07/01/09 and 09/23/08, both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No.09-0930.11)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront/ curtain wall system, prepared by Hurricane Testing Laboratory, LLC, Test Reports No.'s HTL-G049-1005-06 and HTL-G049-0111-06, dated 01/31/07 and 01/17 through 20/06 respectively, both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 07-0416.02)



Jaime D. Gascon, P.E.
Product Control Section Supervisor
NOA No. 11-1013.03
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B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Small Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
7) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront/ curtain wall system, prepared by Hurricane Testing Laboratory, LLC, Test Report No. **HTL-G049-1201-05**, dated 12/05/2005 and 01/24/2006 respectively, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 06-0803.05)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated March 21, 2011, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No. 11-0228.04)
2. Complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/26/10, expiring on 01/14/17.
2. Notice of Acceptance No. **11-0624.01** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB Interlayer**" dated 09/08/11, expiring on 12/11/16.
3. Notice of Acceptance No. **11-0325.05** issued to Solutia Inc. for their "**Saflex and Vanceva clear and color interlayers**" dated 05/05/11, expiring on 05/21/16.
4. Notice of Acceptance No. **08-0520.08** issued to Solutia Inc. for their "**Vanceva Composites Glass Interlayer**" dated 7/17/08, expiring on 12/11/13.



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E. MATERIAL CERTIFICATIONS (CONTINUED)

5. Test reports on: 1) ASTM D412C Tensile Test 30HRS passed 1340 PSI and 1200PSI;
2) ASTM D395B Compression Set 22 HRS with 100°C passed
 $24.8\% \leq 30\%$;
3) ASTM D2240 Shore A Hardness passed $70A \leq 70(\pm 5)$ durometer;
4) ASTM D1149 Ozone Resistance 100 HR/ 40°F/ 20% strain/ 100
pphm NO Cracks;
5) ASTM D573 Heat Resistance 70 HR/ 100°C passed:
Tensile $-1\% \leq 15\%$, Elongation $-37\% \leq 40\%$, Hardness $6 \leq 10$
and $7\text{PSI} \leq 10\text{PSI}$;
6) ASTM D925 Migration Staining 7 day's exposure passed None
Migration;
7) ASTM D624C Tear Test passed $135 \text{ pli} \geq 100 \text{ pli}$;
along with marked-up drawings and installation diagram of neoprene's wedge,
sponge and setting block by Tremco, Inc., prepared by Excel Polymers, LLC
(A2LA No. 0121. 01), Test Report No. **EP 67286**, dated February 16, 2009, signed
by John Quinn.
(Submitted under previous NOA No. 11-0228.04)

F. STATEMENTS

1. Statement letter of protection, prepared by W. W. Schaefer Engineering &
Consulting, P. A., dated February 23, 2012, issued by Warren W. Schaefer, P. E.
2. Statement letter of conformance and compliances with the FBC-2007 and
FBC-2010, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated
October 06, 2011, signed and sealed by Warren W. Schaefer, P. E.
3. Statement letter of no financial interest and independency, prepared by W. W.
Schaefer Engineering & Consulting, P. A., dated October 06, 2011, signed and sealed
by Warren W. Schaefer, P. E.
4. Laboratory compliance letter for Test Report No. **HTL-G049-0804-10**, issued by
Hurricane Test Laboratory, LLC, dated 10/26/2010, signed and sealed by Vinu J.
Abraham, P. E.
(Submitted under previous NOA No. 11-0228.04)
5. Laboratory compliance letter for Test Report No. **EP-67286**, issued by Excel
Polymers, LLC (A2LA No. 0121.01), dated 07/01/2009, dated February 16, 2009,
signed by John Quinn.
(Submitted under previous NOA No. 11-0228.04)
6. Laboratory compliance letter for Test Reports No.'s **HTL-G049-0201-09** and
HTL-G049-0310-08, issued by Hurricane Test Laboratory, LLC, dated 07/01/2009,
both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No.09-0930.11)



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F. STATEMENTS (CONTINUED)

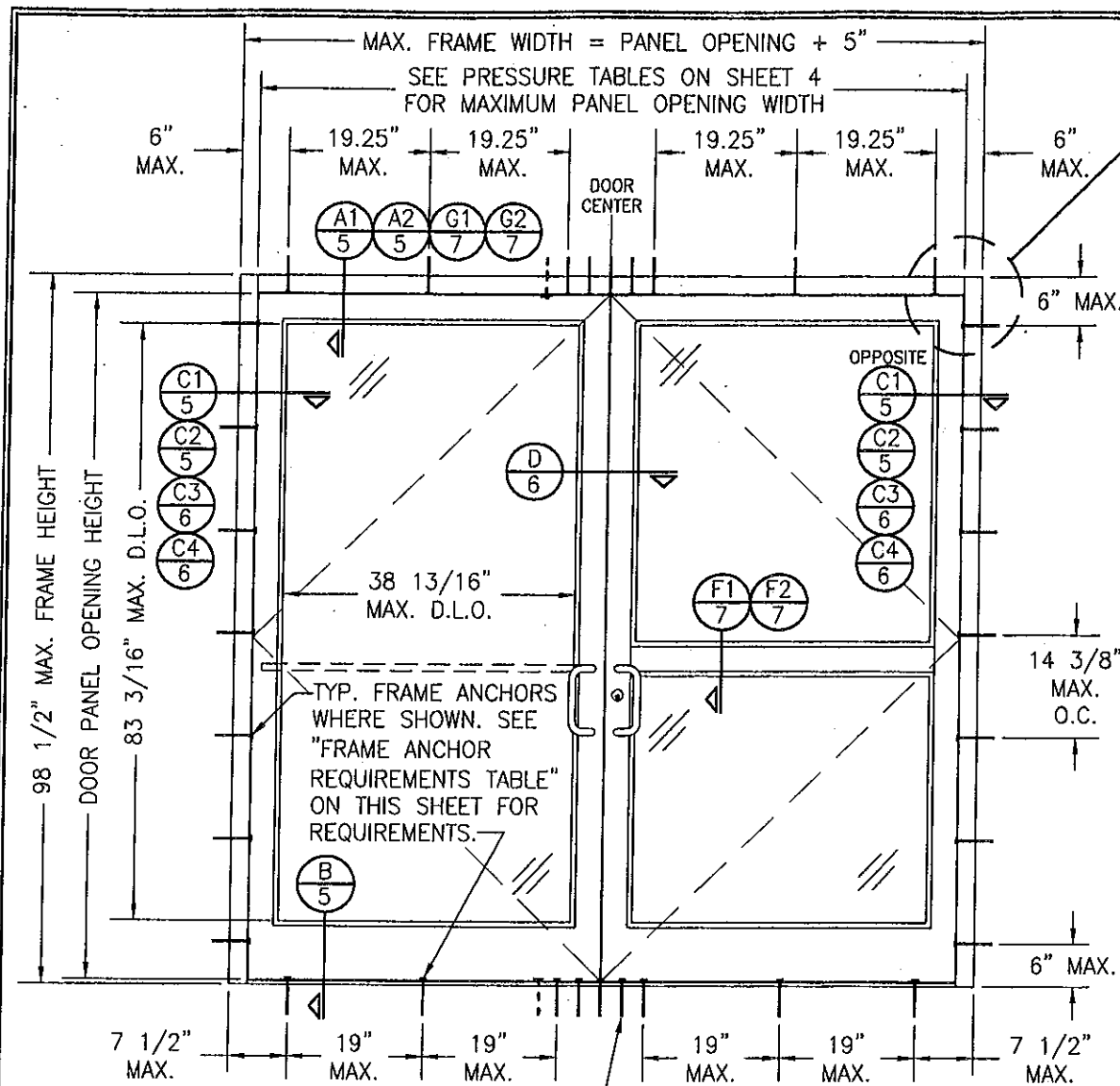
7. Laboratory addendum letters for Test Reports No.'s **HTL-G049-0201-09** and **HTL-G049-0310-08**, issued by Hurricane Test Laboratory, LLC, dated 02/02/09 and 06/07/07, both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 09-0930.11)
8. Laboratory addendum letter for Test Report No. **HTL-G049-1005-06**, issued by Hurricane Test Laboratory, LLC, dated 06/07/07, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 07-0416.02)
9. Laboratory compliance letter for Test Reports No.'s **HTL-G049-1005-06** and **HTL-G049-0111-06**, issued by Hurricane Test Laboratory, LLC, dated 01/31/07 and 01/20/06, both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 07-0416.02)
10. Laboratory compliance letter for Test Report No. **HTL-G049-1201-05**, issued by Hurricane Test Laboratory, LLC, dated 01/24/06, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 06-0803.05)

G. OTHERS

1. Notice of Acceptance No. **11-0228.04**, issued to Kawneer Company, Inc. for their Series "**350IR Outswing Wet Glazed Aluminum Storefront Door – L.M.I.**", approved on 04/07/2011 and expiring on 02/08/2017.



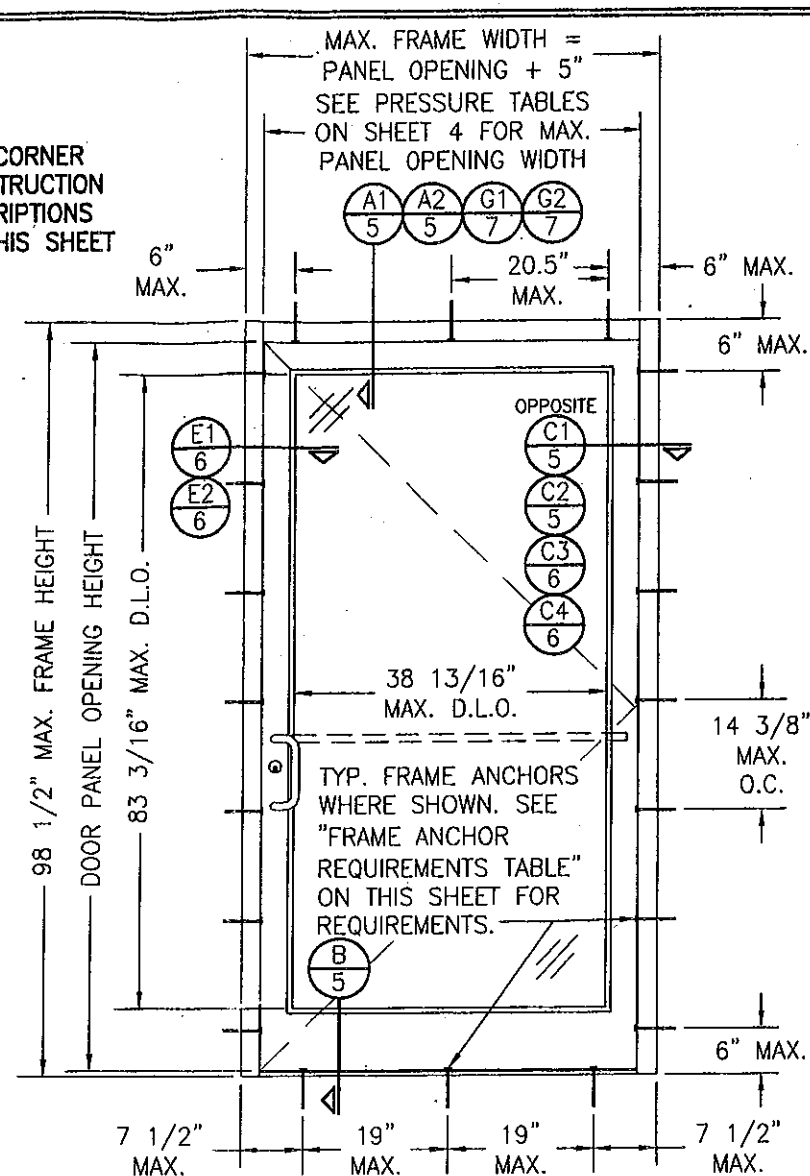
Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-1013.03
Expiration Date: February 08, 2017
Approval Date: March 15, 2012



**EXTERIOR ELEVATION:
DOUBLE DOOR ASSEMBLY WITH
STORE FRONT FRAMING**

SCALE: 1/2"=1'-0"

AT HEAD & SILL, CLUSTER ANCHORS AS SHOWN AT MEETING STILE ENDS SPACED 3" APART. CLUSTER 6 ANCHORS WITH ANCHOR TYPE A; CLUSTER 5 ANCHORS WITH ANCHOR TYPES B, C, D & F (ANCHOR "E" IS NOT APPLICABLE AT HEAD & SILL).



**EXTERIOR ELEVATION:
SINGLE DOOR ASSEMBLY WITH
STORE FRONT FRAMING**

SCALE: 1/2"=1'-0"

GENERAL NOTES:

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT DOORS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
7. ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

FRAME ANCHOR REQUIREMENTS TABLE

FRAME & SILL ANCHORS				
ANCHOR TYPE	OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
A	2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS SCREW	1 1/4"	3/4"
B	MIN. 16 GA. 50 KSI METAL STUD	(2) NO. 12 SELF DRILL/TAPPING SCREW	FULL	1/2"
C	MIN. 0.22" THICK A36 STEEL	(2) 1/4-20 SELF DRILL/TAPPING SCREW	FULL	1/2"
D	MIN. 3000 P.S.I. CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2 1/2"
E	MIN. C90 CONCRETE FILLED BLOCK	(1) 1/4" CONCRETE SCREW	1 1/2"	2 1/2"
F	CURTAIN WALL	(2) 1/4-20 SELF DRILL/TAPPING SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).

(2) SELF DRILLING & SELF TAPPING SCREWS SHALL BE MIN. GRADE 5 CORROSION RESISTANT STEEL

ALLOWABLE DESIGN PRESSURE

SEE SHEET 4

(*) THESE DOORS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE-BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC CHAPTER 24.

CORNER & FRAME END CONSTRUCTION FOR SHEET 1 ELEVATIONS:

FRAME HEAD CORNER (IR500/501 FRAME): HEAD IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH THREE (3) NO. 12 X 1" S.S. PHTFS FASTENERS THROUGH THE SIDE MEMBER INTO THE HEAD MEMBER SCREW SPLINES & SEALED WITH SILICONE.

FRAME HEAD CORNER (TRIFAB 450/451 FRAME): HEAD IS SQUARE CUT, BUTTED TO SIDE, SECURED WITH SHEAR BLOCK ITEM# 16 (SEE SECTION G/5 & M/6) & SEALED WITH SILICONE.

FRAME SILL CORNER: SILL IS SQUARE CUT, BUTTED TO SIDE, SECURED TO THE SIDE MEMBER USING A PIVOT ASSEMBLY OR STEEL CLIP, FASTENED WITH THREE (3) NO. 12-24 X 3/8" FHMS AT THE FRAME & TWO (2) NO. 12-24 X 3/8" FHMS AT THE SILL, & SEALED WITH SILICONE.

DOOR PANEL CORNERS: VERTICAL STILES RUN THROUGH AND ARE SECURED TO THE RAILS AT THE TOP & BOTTOM WITH 1/4" THICK EXTRUDED CHANNELS. EACH CHANNEL IS FASTENED TO THE STILE & RAIL WITH 1/4-20 X 3/4" PHMS & 3/16" THICK STEEL NUT PLATES. THE INTERSECTION OF EACH CORNER JOINT WAS WELDED WITH A 1/2" DIA. PLUG WELD AND A 1 1/8" LONG FILLET WELD AT BOTH WEBS OF THE RAIL.

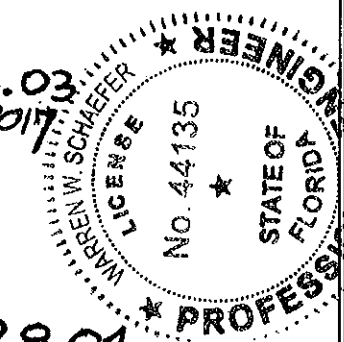
MIDRAIL ENDS: SECURED TO THE VERTICAL RAILS WITH 4 EACH 1 1/8" LONG FILLET WELDS

PRODUCT REVISED

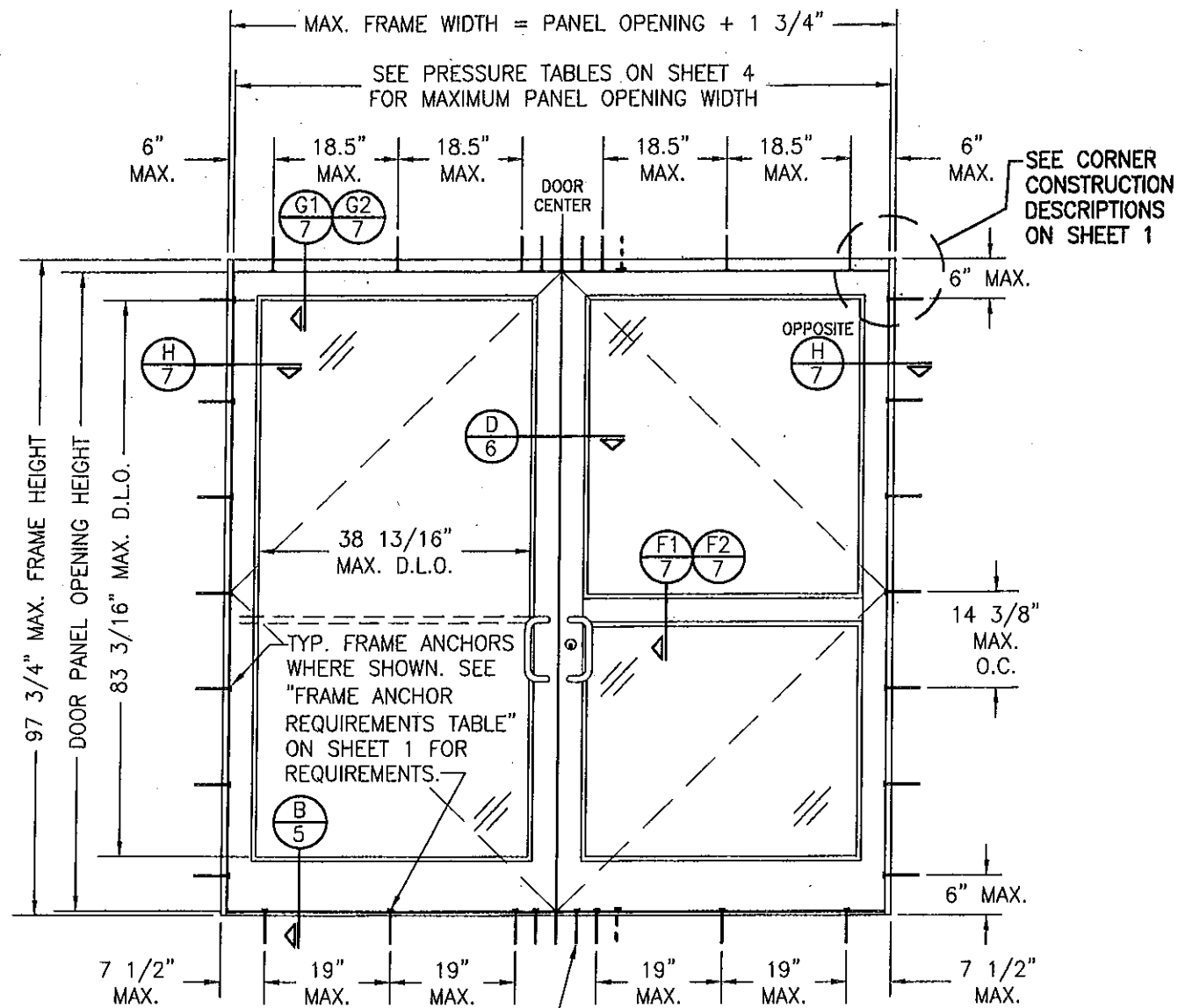
as complying with the Florida Building Code
Acceptance No. 11-1013.03
Expiration Date 02/06/2017
By: [Signature]
Miami Dade Product Control

PRODUCT RENEWED

as complying with the Florida Building Code
Acceptance No. 11-0228.04
Expiration Date 02/06/2017
By: [Signature]
Miami Dade Product Control



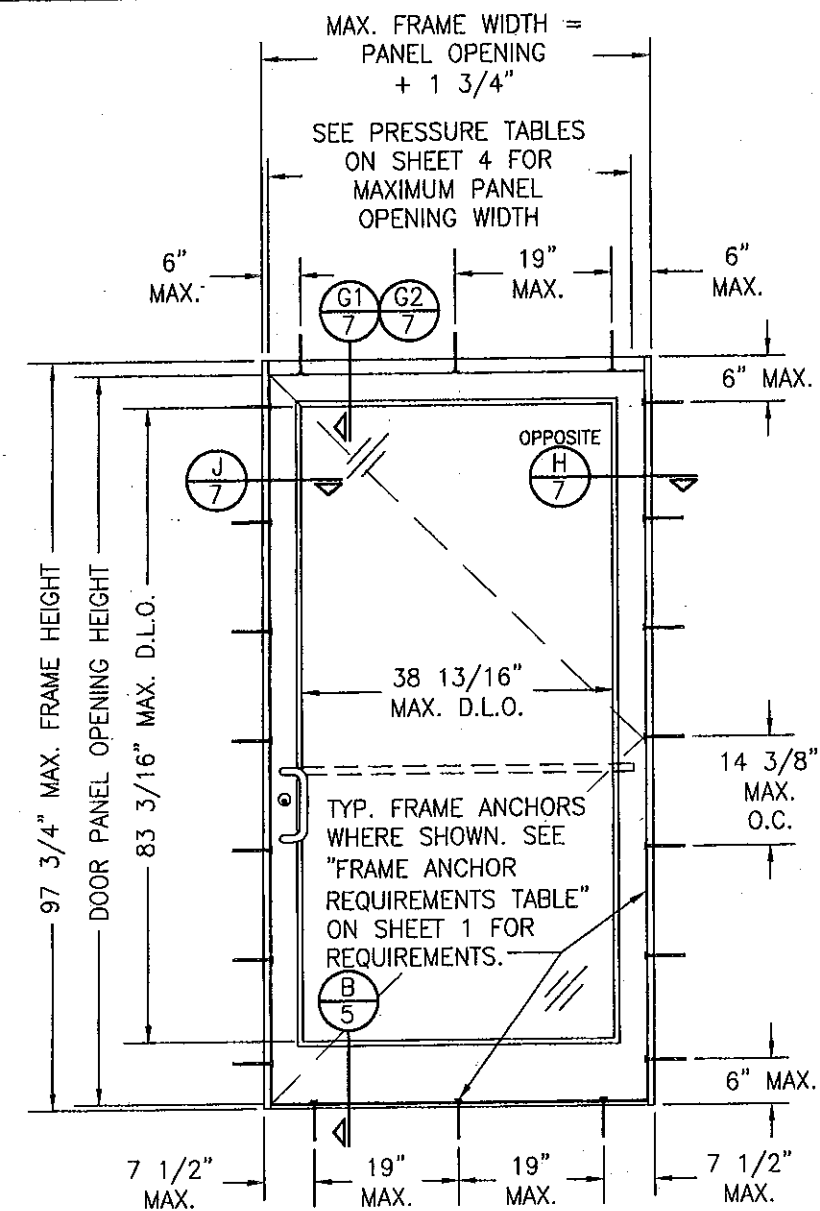
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 11/10/05	
DATE	BY	REVISION DESCRIPTION	NO.
04/04/07	WWS	ADDED SMALLER DOOR TO HIGHER PRESSURE CONDITION	A1
01/13/09	WRM	ADDED WOOD SUBSTRATE TO 90 PSF	B1
08/28/09	WRM	NEW GLAZING & LOCKS	C1
02/11/11	WRM	UPDATE PER NEW TESTING	D1
DRAWING TITLE: 350IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
DRAWING NO. 1460		REV. D	
SHEET NO. 1		OF 10	



EXTERIOR ELEVATION:
DOUBLE DOOR ASSEMBLY WITH
STANDARD FRAMING
SCALE: 1/2"=1'-0"

- AT HEAD & SILL, CLUSTER ANCHORS AS SHOWN AT MEETING STILE ENDS SPACED 3" APART. CLUSTER 6 ANCHORS WITH ANCHOR TYPE A; CLUSTER 5 ANCHORS WITH ANCHOR TYPES B, C, D & F (ANCHOR "E" IS NOT APPLICABLE AT HEAD & SILL).

ALLOWABLE DESIGN PRESSURE
SEE SHEET 4

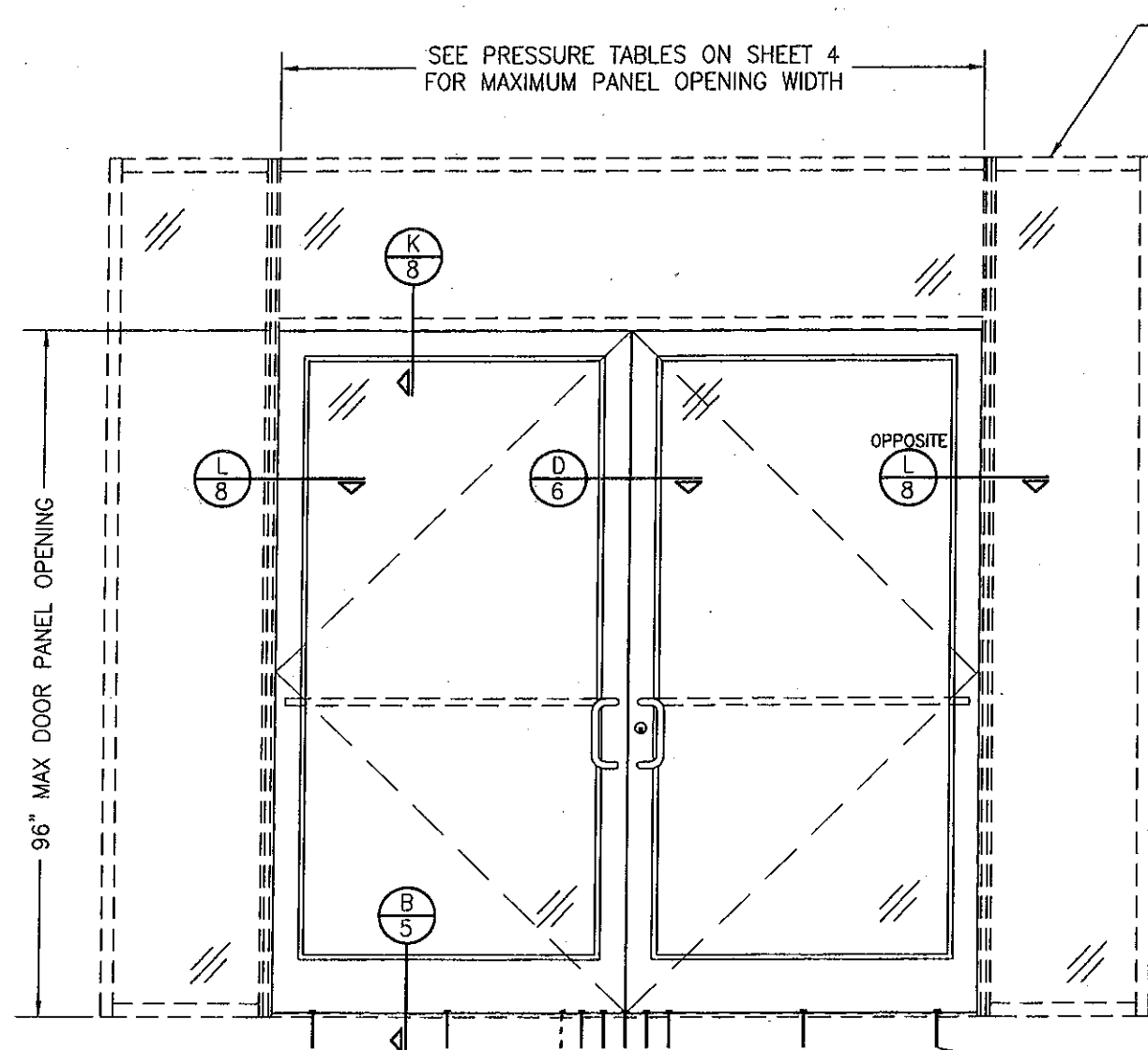


EXTERIOR ELEVATION:
SINGLE DOOR ASSEMBLY WITH
STANDARD FRAMING
SCALE: 1/2"=1'-0"

PRODUCT REVISED
as complying with the Florida
Building Code
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By [Signature]
Miami Dade Product Control

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EXTERIOR ELEVATION:
DOORS INSIDE IR-500 OR IR-501 STORE FRONT SYSTEM

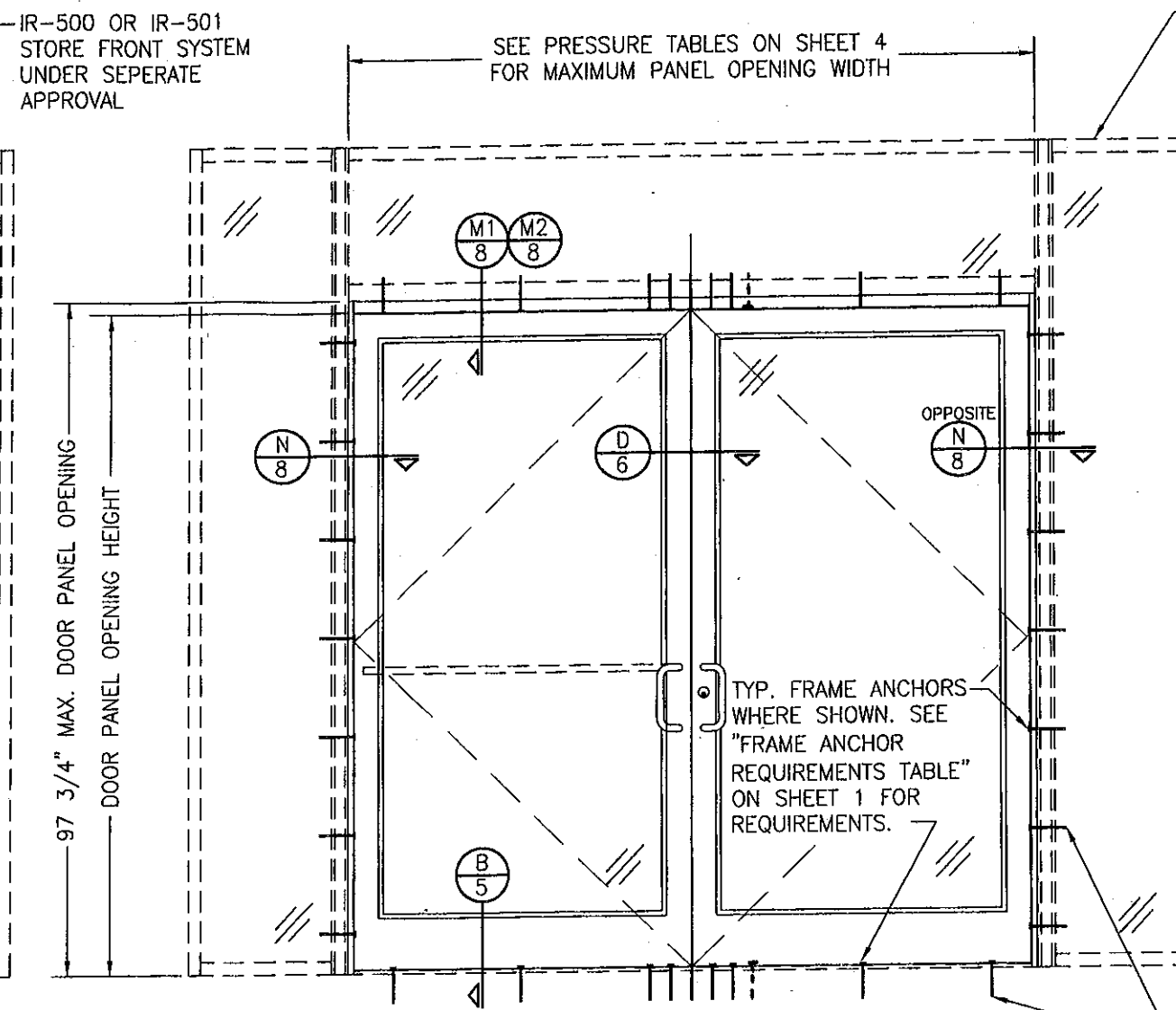
SCALE: 1/2"=1'-0"

NOTES:

1. FOR DETAILS NOT SHOWN, SEE ELEVATIONS ON SHEET 1.
2. DOUBLE DOOR SHOWN; SINGLE DOOR CONDITION ALSO APPLIES.
3. FOR STORE FRONT FRAMING REQUIREMENTS & INSTALLATION, SEE RESPECTIVE STORE FRONT APPROVAL.
4. LESSER ALLOWABLE PRESSURE RATING OF THE DOORS & STOREFRONT SHALL CONTROL FOR THE OVERALL ASSEMBLY.

SEE ELEVATION SHEET 1 FOR SILL ANCHOR REQUIREMENTS & ANCHOR LOCATIONS

ALLOWABLE DESIGN PRESSURE
SEE SHEET 4



EXTERIOR ELEVATION:
DOORS INSIDE 1600 SYSTEM 1 CURTAIN WALL

SCALE: 1/2"=1'-0"

NOTES:

1. FOR DETAILS NOT SHOWN, SEE ELEVATIONS ON SHEET 2.
2. DOUBLE DOOR SHOWN; SINGLE DOOR CONDITION ALSO APPLIES.
3. FOR CURTAIN WALL FRAMING REQUIREMENTS & INSTALLATION, SEE RESPECTIVE CURTAIN WALL APPROVAL.
4. LESSER ALLOWABLE PRESSURE RATING OF THE DOORS & STOREFRONT SHALL CONTROL FOR THE OVERALL ASSEMBLY.

SEE ELEVATION SHEET 2 FOR ANCHOR REQUIREMENTS & ANCHOR LOCATIONS



PRODUCT REVISED
as complying with the Florida
Building Code 11-1013.03
Acceptance No.
Expiration Date 02/08/2017
By *[Signature]*
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code 11-0228.04
Acceptance No.
Expiration Date 02/08/2017
By *[Signature]*
Miami Dade Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 11/10/05
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE 3501R OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION MAR 23 2011 WARREN W. SCHAEFFER, P.E. P.E. NO. 44135	
DRAWING NO. 1460	REV. D
SHEET NO. 3 OF 10	

MAXIMUM DOOR PANEL OPENING WIDTH (IN.)		APPLICABLE GLAZING DETAIL	APPLICABLE GLASS OPTIONS	ALLOWABLE PRESSURE (+/-PSF)
DOUBLE DOOR	SINGLE DOOR			
96	48	1	1 & 2	65
96	48	2	1, 2, 3 & 5	70
96	48	2	4	90
84	42	1	3 & 4	90

MAXIMUM DOOR PANEL OPENING WIDTH (IN.)		PANIC DEVICE	ALLOWABLE PRESSURE (+/-PSF)
DOUBLE DOOR	SINGLE DOOR		
96	48	SARGENT AD8400	70
96	48	ADAMS RITE G86	70
96	48	CALIBRE 9100	70
96	48	VON DUPRIN 9947	40
96	48	JACKSON 2086	90
84	42	KAWNEER 1686	90
96	48		70
96	48	PANELINE CR-90	70
96	48	SARGENT 8400	65

1. CONDITIONS IN THESE TABLES ARE APPLICABLE FOR ALL DOORS TO THEIR MAXIMUM PANEL HEIGHT OF 96".

2. SEE GLAZING DETAILS ON THIS SHEET FOR GLAZING DETAILS & GLASS OPTIONS APPLICABLE TO THESE TABLES.

3. SEE ELEVATIONS ON THIS SHEET FOR VIEW OF DOOR PANEL OPENING HEIGHT & WIDTH.

4. THE LESSER PRESSURE IN ANY ONE TABLE SHALL CONTROL AS THE ALLOWABLE PRESSURE ON THE DOOR ASSEMBLY.

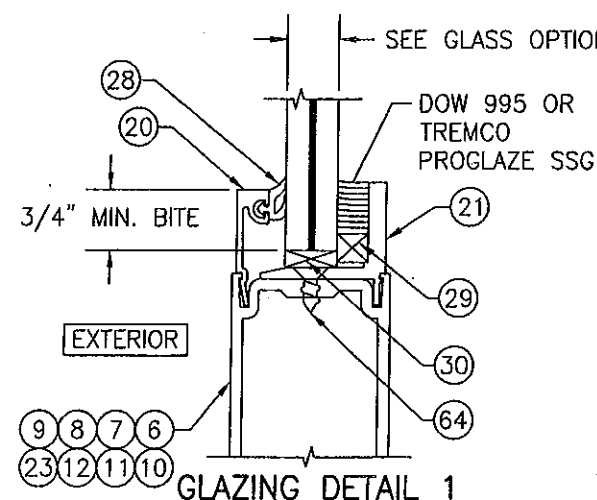
HINGE QUANTITY PER PANEL	ALLOWABLE PRESSURE (+/-PSF)
3	70
4	90

NOTE: 3 HINGES PER DOOR PANEL IS ONLY APPLICABLE WITH DOOR OPENING PANEL HEIGHTS OF 90" & LESS

MAXIMUM DOOR PANEL OPENING WIDTH (IN.)		LOCK CONDITION	ALLOWABLE PRESSURE (+/-PSF)
DOUBLE DOOR	SINGLE DOOR		
96	48	1	70
84	42	1	90
96	48	2	90

Diagram illustrating two door panel configurations with dimensions:

- Left Configuration (Double Door):** Shows two adjacent door panels. The top panel contains the text "FOR FRAME CONDITIONS, SEE ELEVATIONS". The bottom panel features a central handle and lock mechanism. Dimension lines indicate "DOOR PANEL OPENING WIDTH" and "DOOR PANEL OPENING HEIGHT".
- Right Configuration (Single Door):** Shows a single door panel. The top panel contains the text "FOR FRAME CONDITIONS, SEE ELEVATIONS". The bottom panel features a side handle and lock mechanism. Dimension lines indicate "DOOR PANEL OPENING WIDTH" and "DOOR PANEL OPENING HEIGHT".

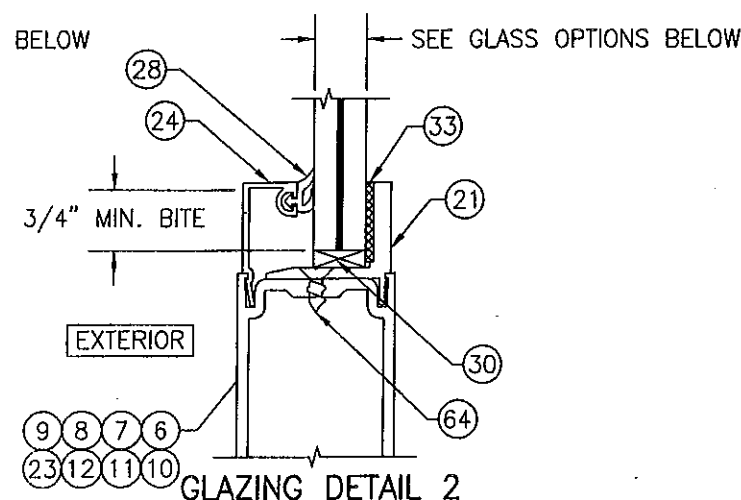


OPTION 1: 9/16" THICK LAMINATED GLASS
(1/4" HT. ST./0.09 SOLUTIA SAFLEX
IIG PVB/1/4" HT. ST.)

OPTION 2: 9/16" THICK LAMINATED GLASS
(1/4" HT. ST./0.09 DUPONT
BUTICITE PVB/1/4" HT. ST.)

OPTION 3: 9/16" THICK LAMINATED GLASS
(1/4" HT. ST./0.09 DUPONT
SG/1/4" HT. ST.)

OPTION 4: 9/16" THICK LAMINATED GLASS
(1/4" HT. ST./0.077" SOLUTIA
VANCEVA/1/4" HT. ST.)



OPTION 1: 9/16" THICK LAMINATED GLASS
(1/4" HT. ST./0.09 SOLUTIA SAFLEX
IIG PVB/1/4" HT. ST.)

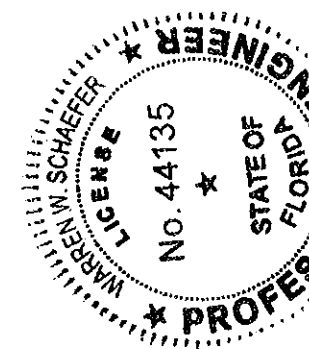
OPTION 2: 9/16" THICK LAMINATED GLASS
(1/4" HT. ST./0.09 DUPONT
BUTICITE PVB/1/4" HT. ST.)

OPTION 3: 9/16" THICK LAMINATED GLASS
(1/4" HT. ST./0.09 DUPONT
SG/1/4" HT. ST.)

OPTION 4: 9/16" THICK LAMINATED GLASS
(1/4" HT. ST./0.077" SOLUTIA
VANCEVA/1/4" HT. ST.)

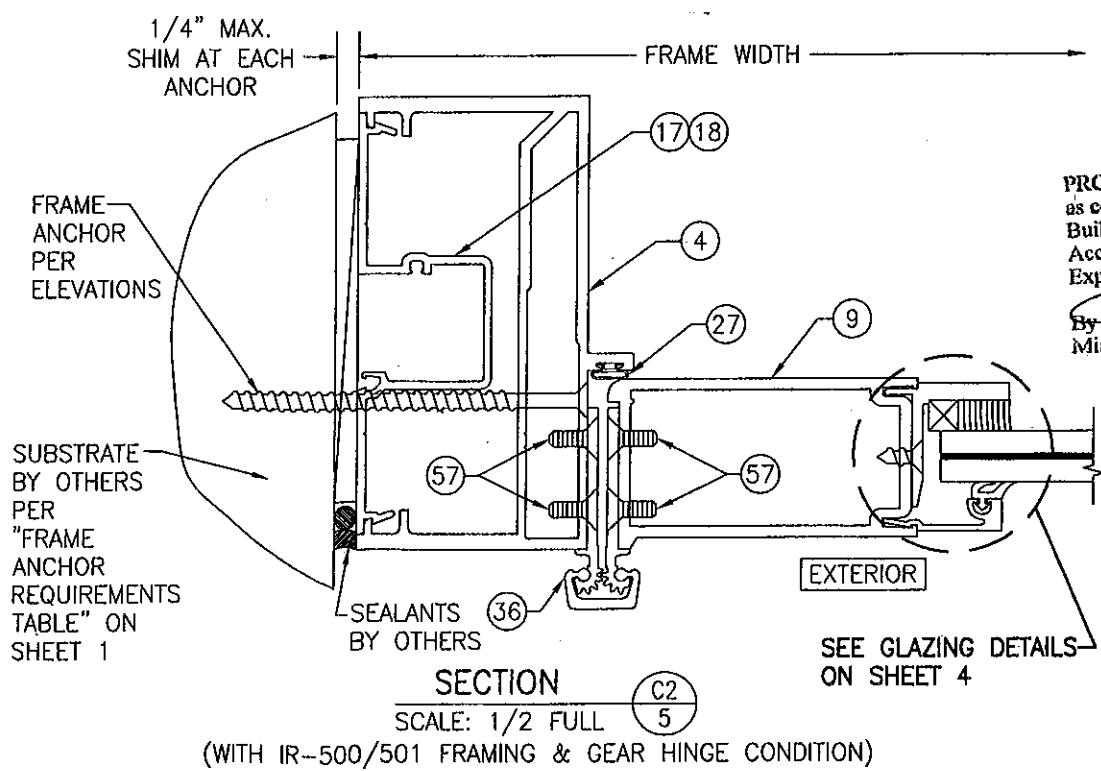
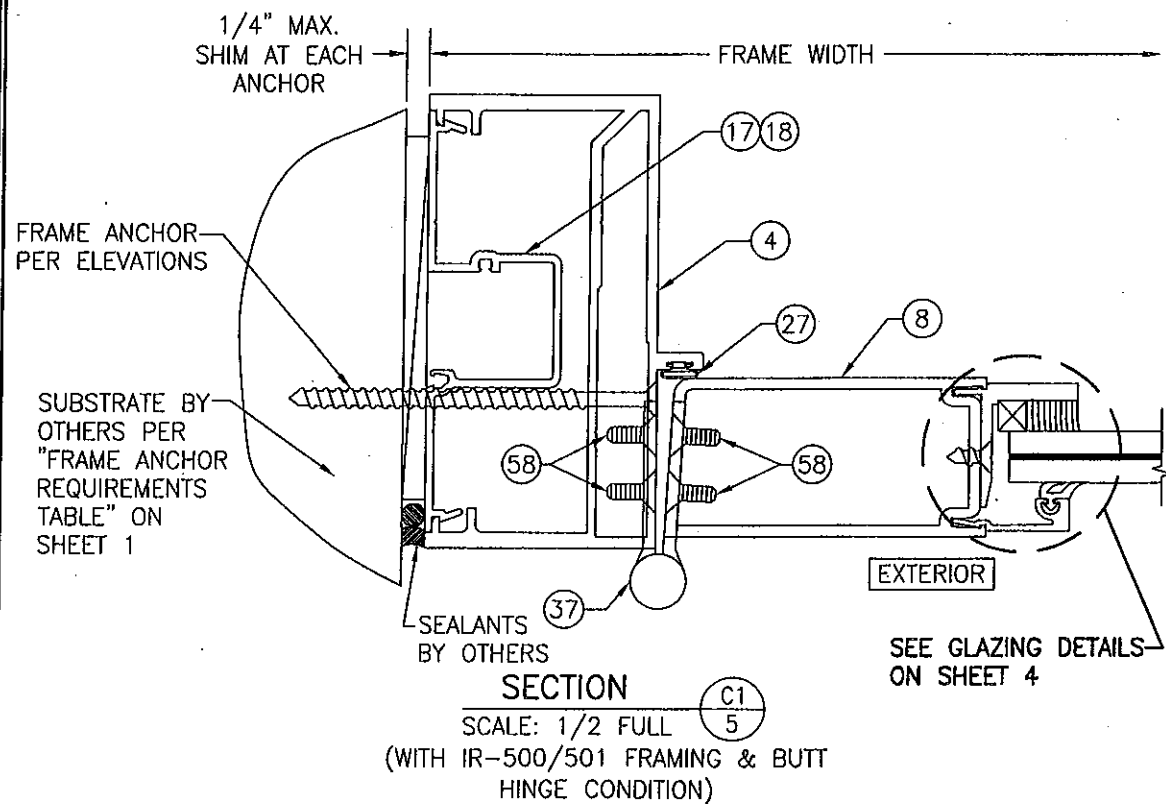
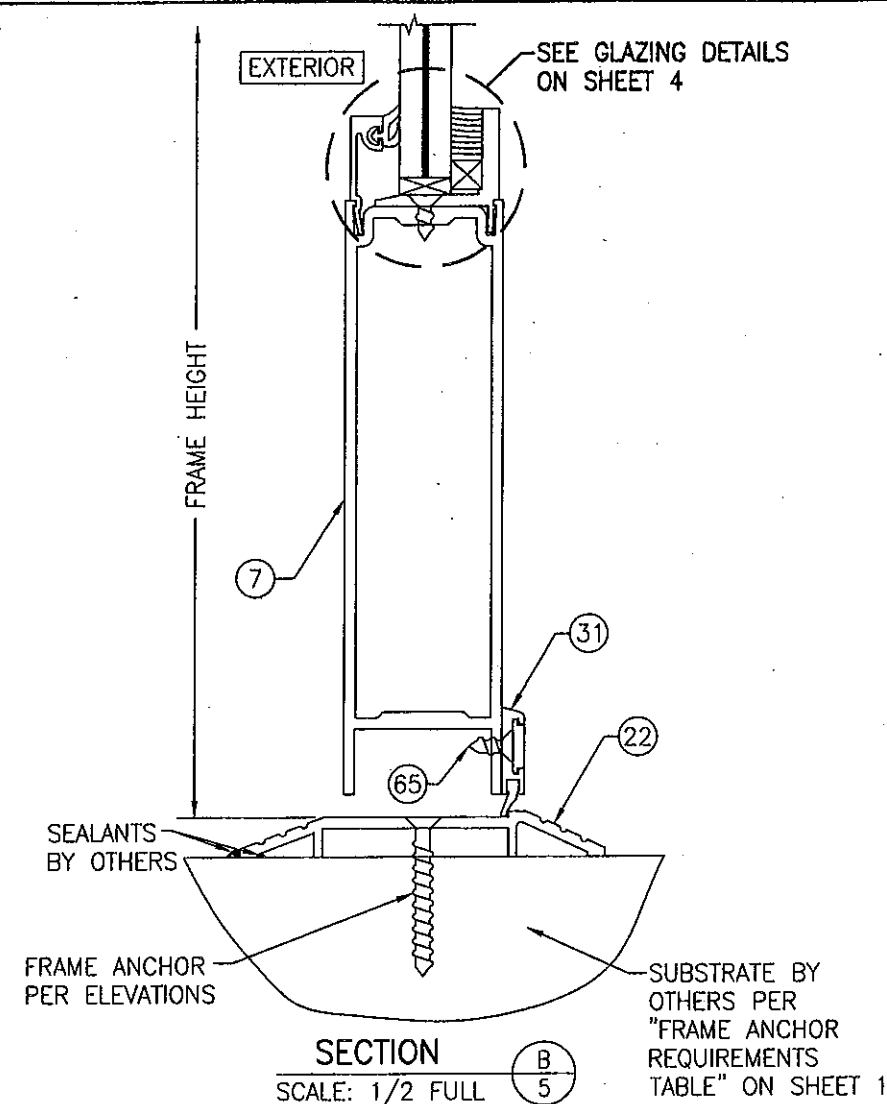
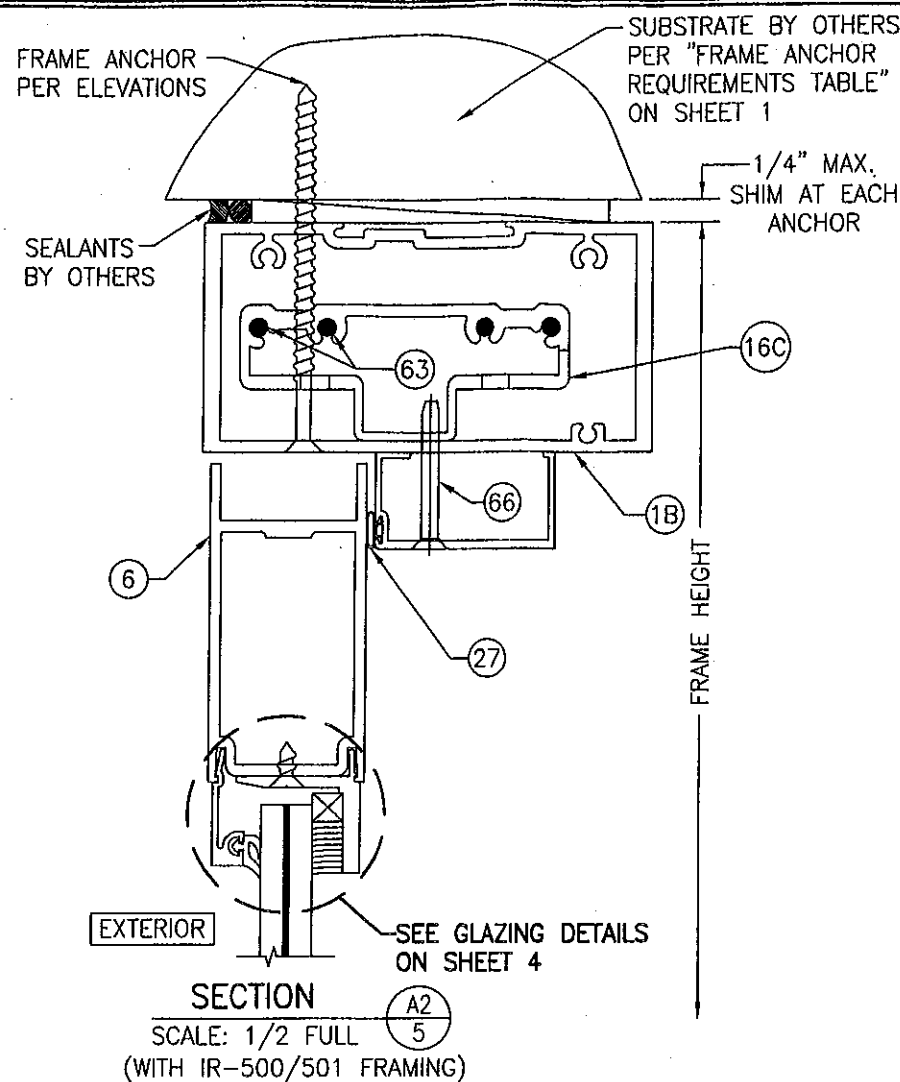
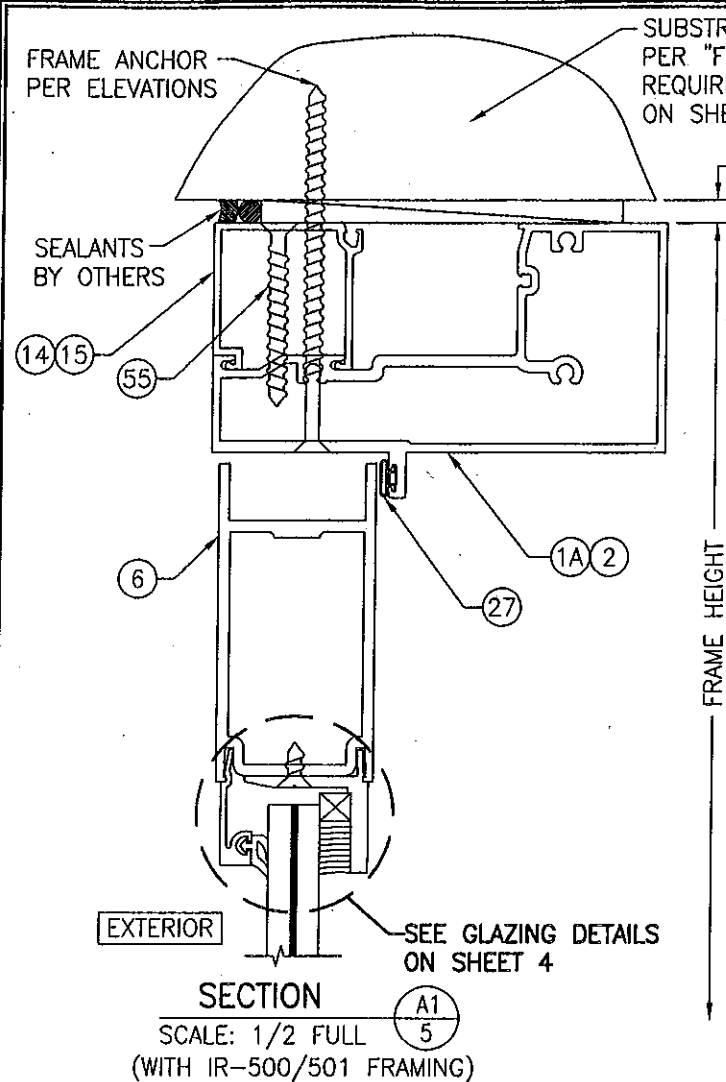
OPTION 5: 9/16" THICK LAMINATED GLASS
(1/4" HT. ST./0.10" SOLUTIA
SAFLEX HP/1/4" HT. ST.)

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 11-02
Expiration Date 02/08
By [Signature]
Miami Dade Product Control

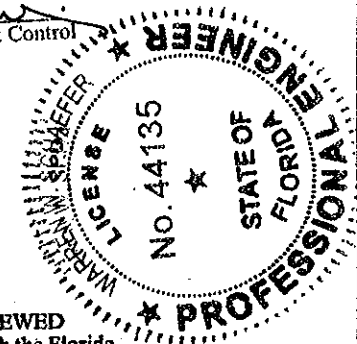


DRAWING TITLE		DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
350IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED		PLOT:		DATE:	
		1=24		11/10/05	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		NO.		DATE	
		REVISION DESCRIPTION		BY	
MANUFACTURER		KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555			

CERTIFICATE OF TITLE
MAR 23 2011
WARREN M. SCHAEFER, P.E.
DRAWING NO. 1460 REV. D
SHEET NO. 4 OF 10

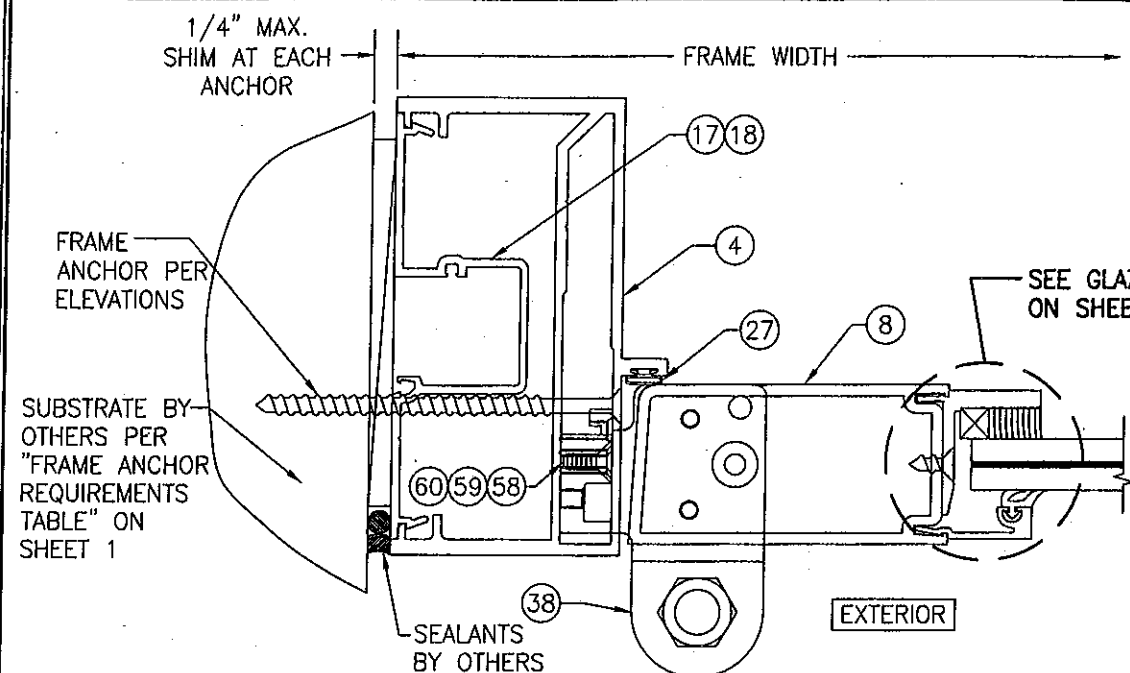


PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1013.03
Expiration Date 02/08/2017
By [Signature]
Miami Dade Product Control

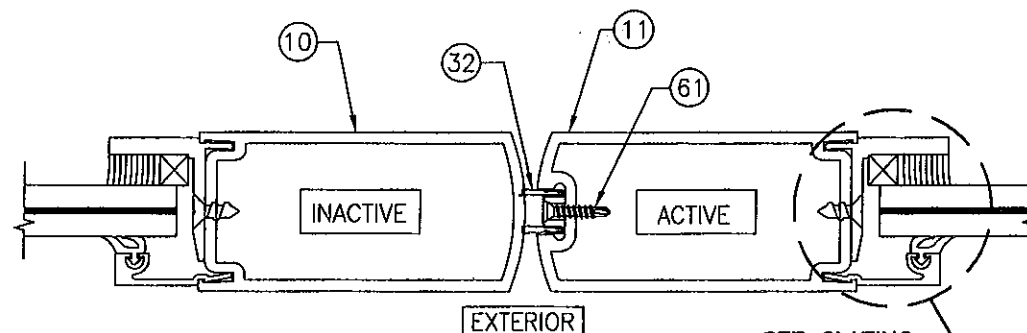


PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 11-9228.04
Expiration Date 02/08/2017
By [Signature]
Miami Dade Product Control

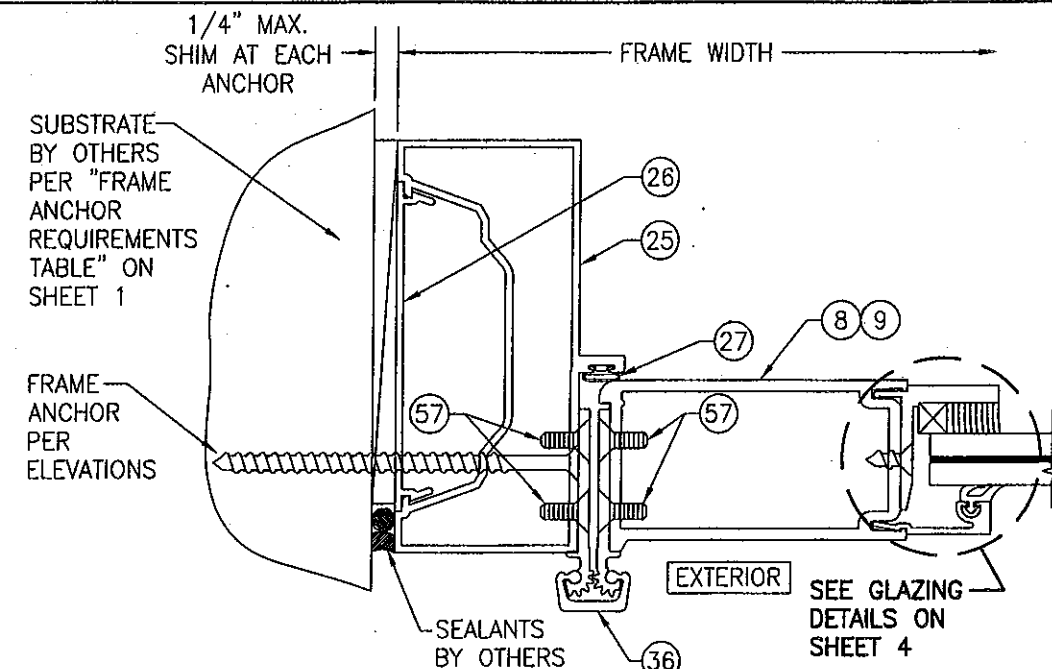
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 11/10/05	
NO.	REVISION DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
DRAWING TITLE 3501R OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED			
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION MAR 23 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1460		REV. D	
SHEET NO. 5		OF 10	



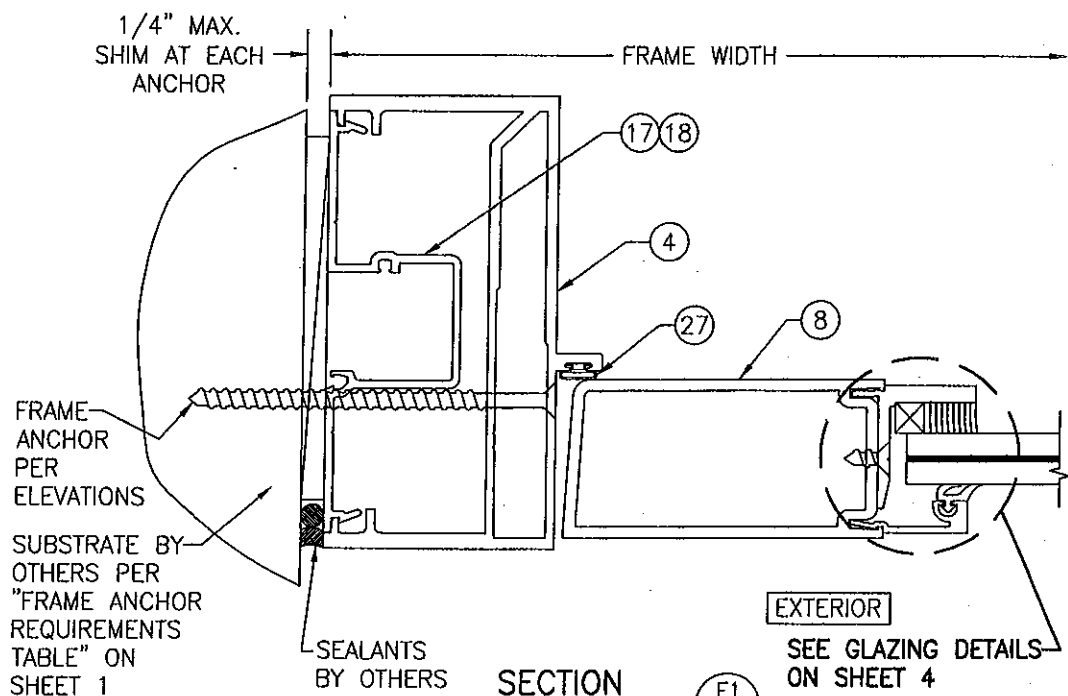
SECTION C3/6
SCALE: 1/2 FULL
(WITH IR-500/501 FRAMING & PIVOT HINGE CONDITION)



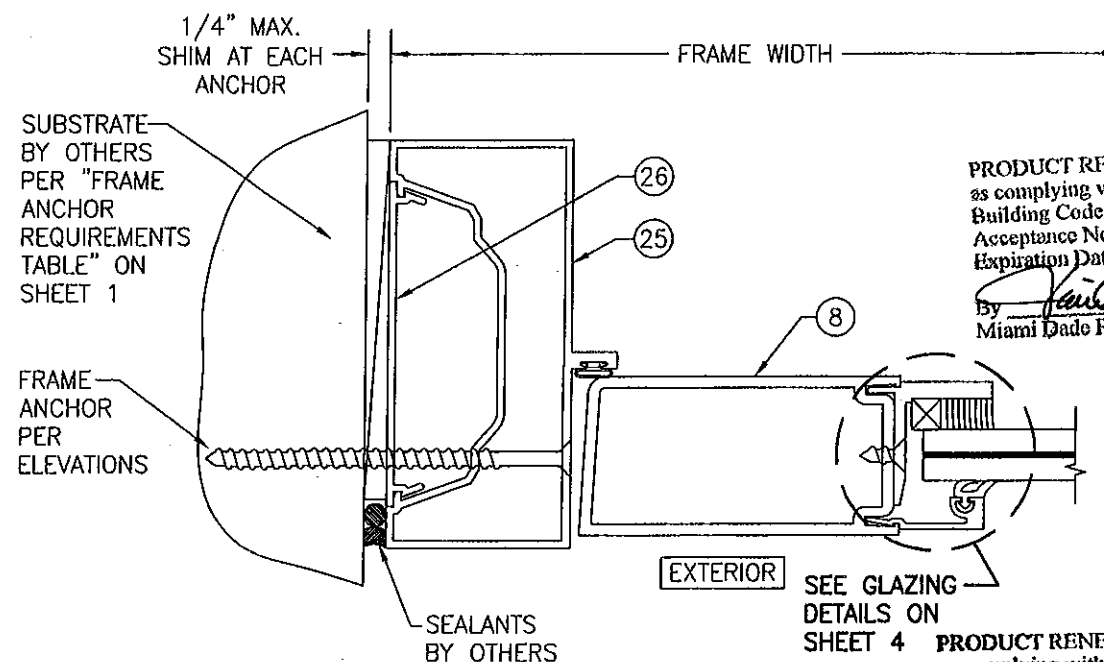
SECTION D/6
SCALE: 1/2 FULL



SECTION C4/6
SCALE: 1/2 FULL
(WITH TRIFAB 450/451 FRAMING)
(GEAR HINGE CONDITION SHOWN. FOR OTHER HINGE CONDITIONS APPLICABLE TO THIS SECTION, SEE SECTIONS C1/5 & C3/6.)



SECTION E1/6
SCALE: 1/2 FULL
(WITH IR-500/501 FRAMING)



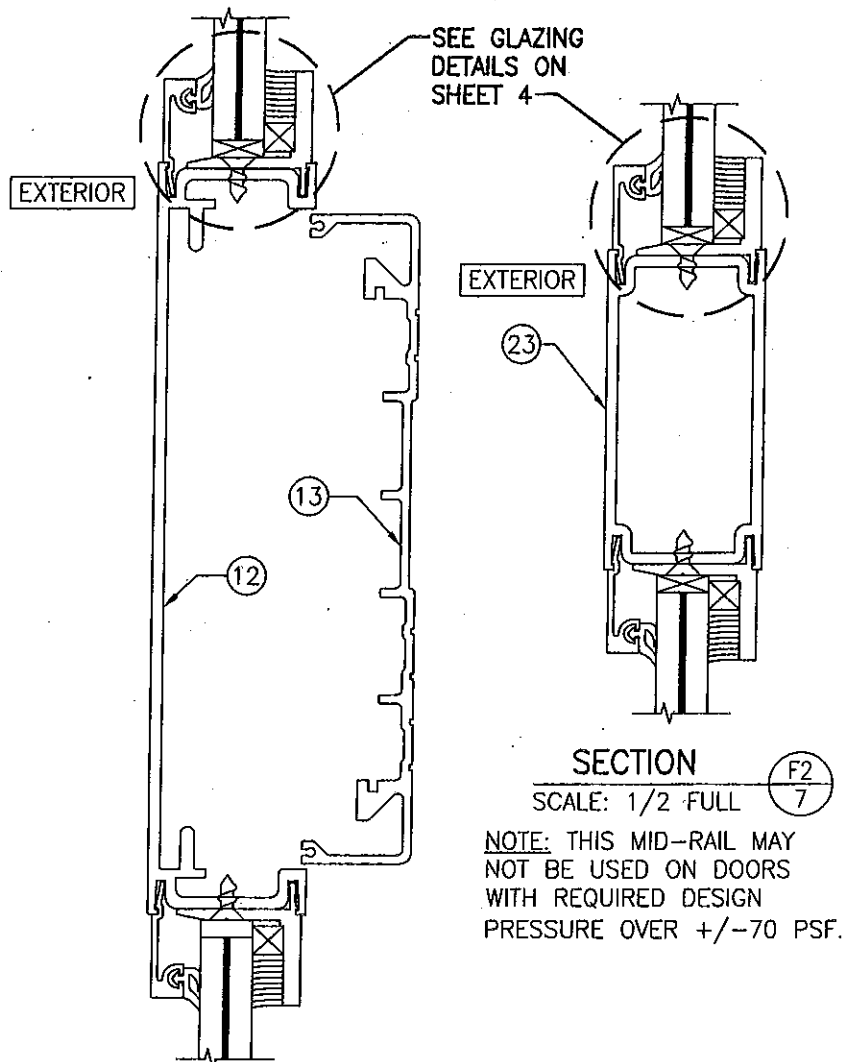
SECTION E2/6
SCALE: 1/2 FULL
(WITH TRIFAB 450/451 FRAMING)

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as complying with the Florida
Building Code
Acceptance No. 11-1013.03
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Miami Dade Product Control

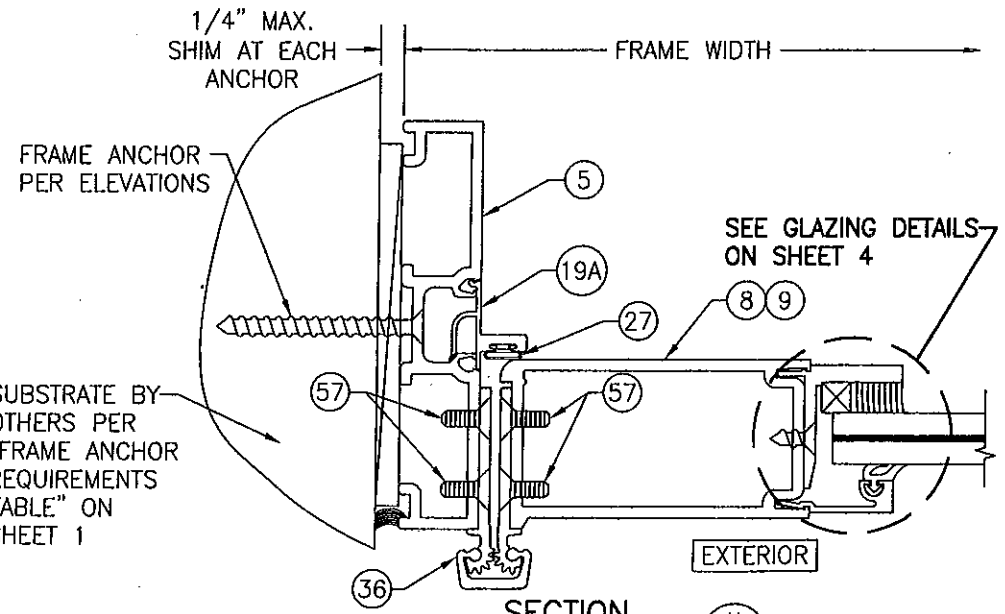
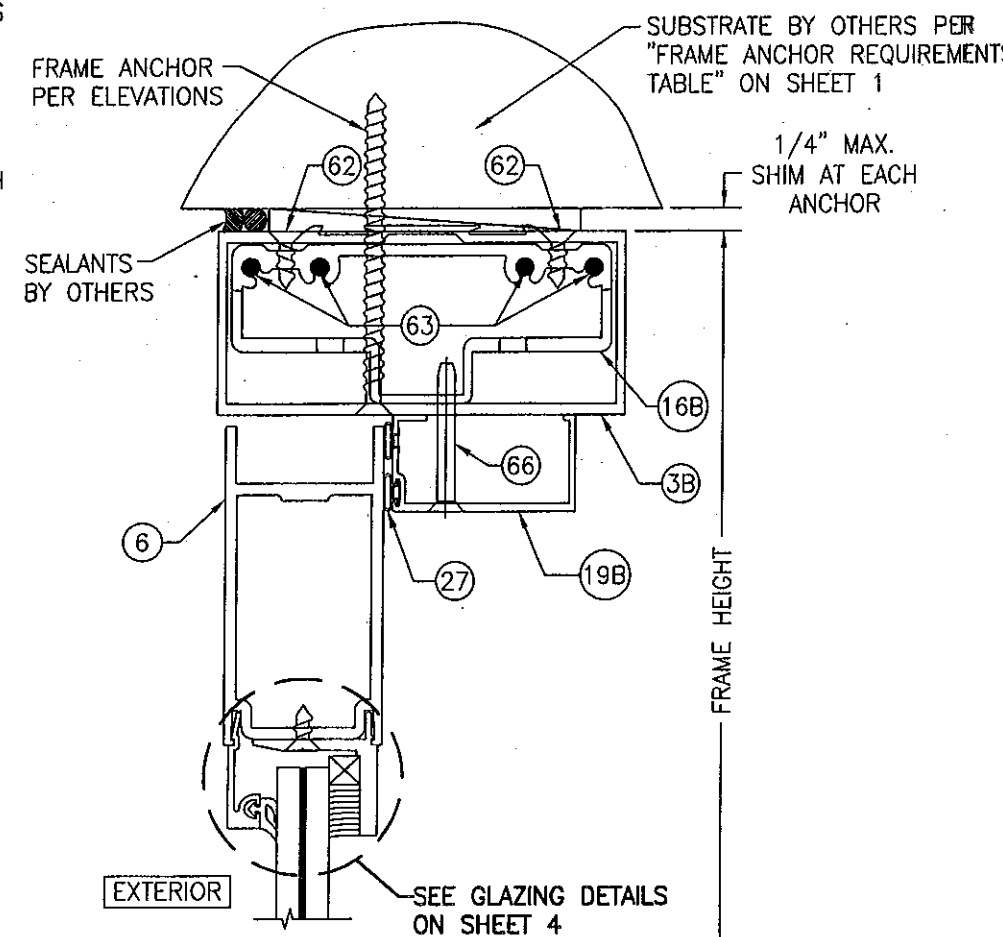
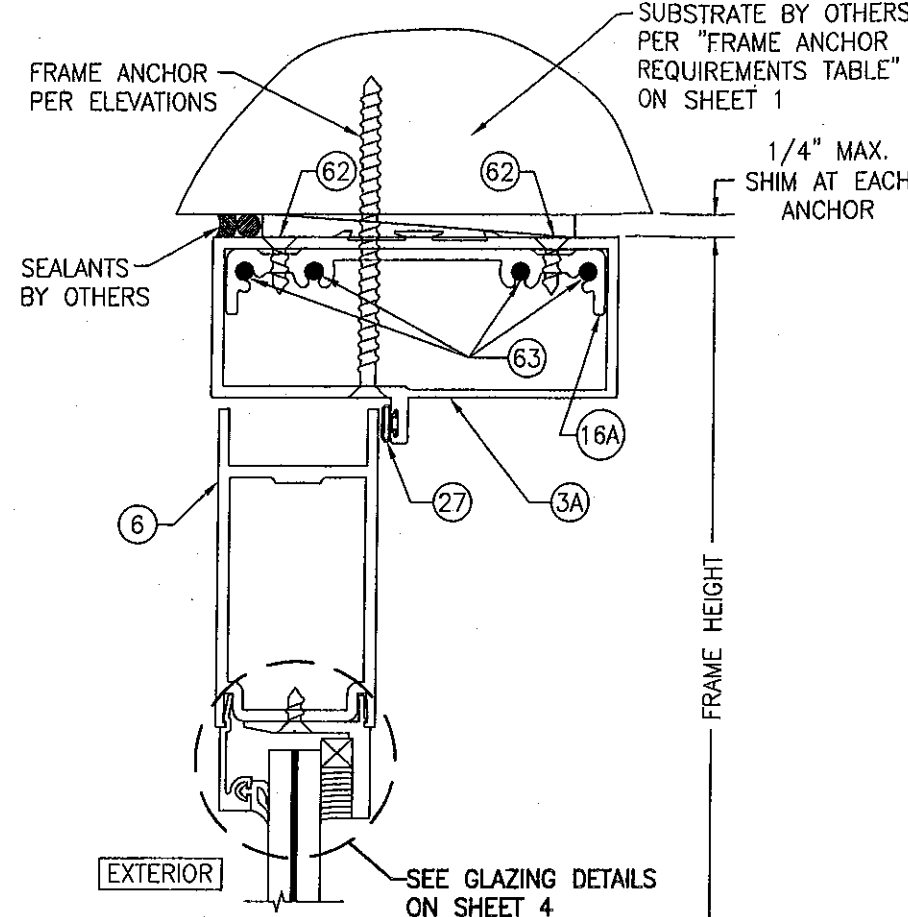
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 11-0228.04
Expiration Date 02/08/2017
By *[Signature]*
Miami Dade Product Control



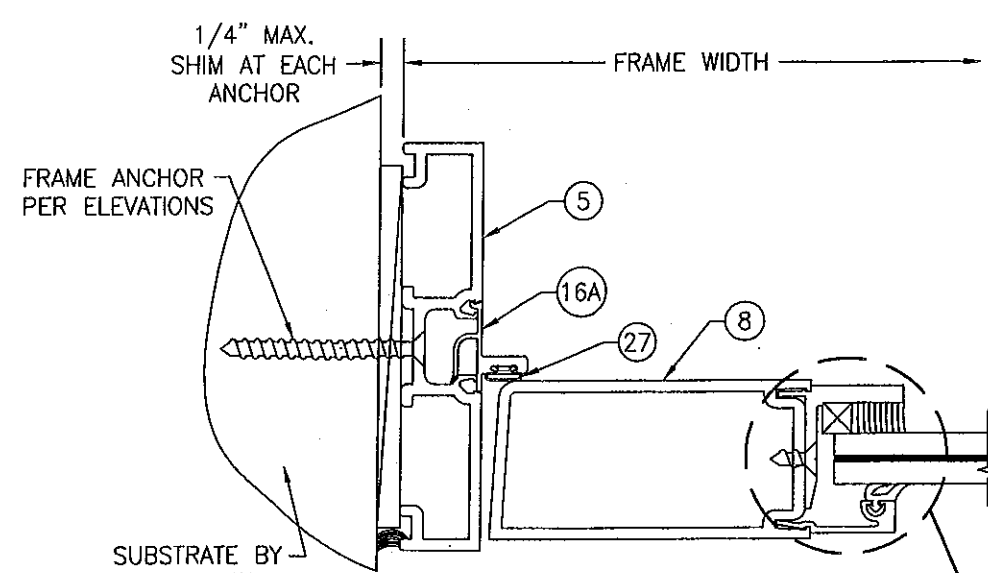
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 11/10/05
DATE	BY
REVISION DESCRIPTION	NO.
350IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION MAR 23 2011	DRAWING NO. 1460
REVISION D	SHEET NO. 6 OF 10



NOTE: THIS MID-RAIL MAY NOT BE USED ON DOORS WITH REQUIRED DESIGN PRESSURE OVER +/-70 PSF.

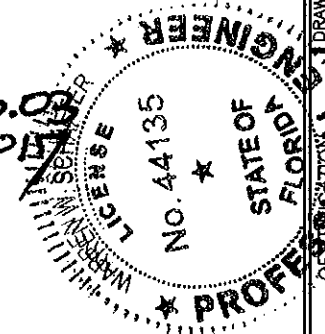


(GEAR HINGE CONDITION SHOWN; FOR OTHER HINGE CONDITIONS APPLICABLE TO THIS SECTION, SEE SECTIONS C1/5 & C3/6)

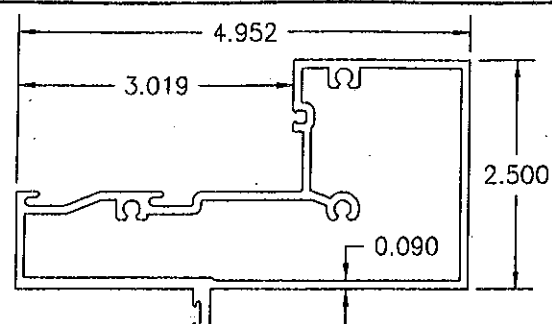


PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 11-1013.08
Expiration Date 02/08/2015
By *[Signature]*
Miami Dade Product Control

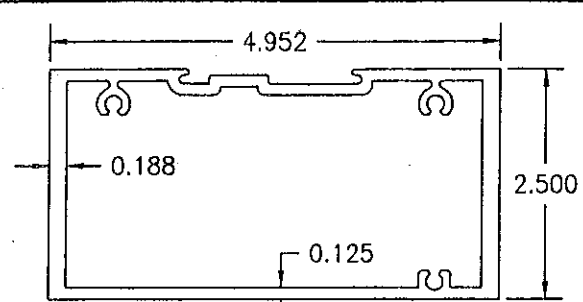
PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 11-0228.04
Expiration Date 02/08/2015
By *[Signature]*
Miami Dade Product Control



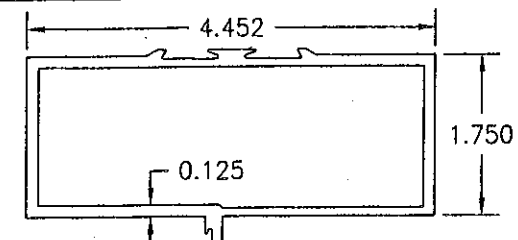
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 11/10/05
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE 350IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
DATE MAR 28 2011	
DRAWING NO.	REV.
1460	D
SHEET NO.	7 OF 10



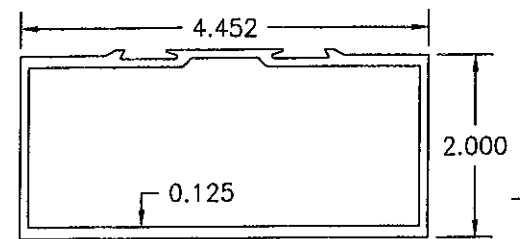
1A HEAD JAMB (IR-500)



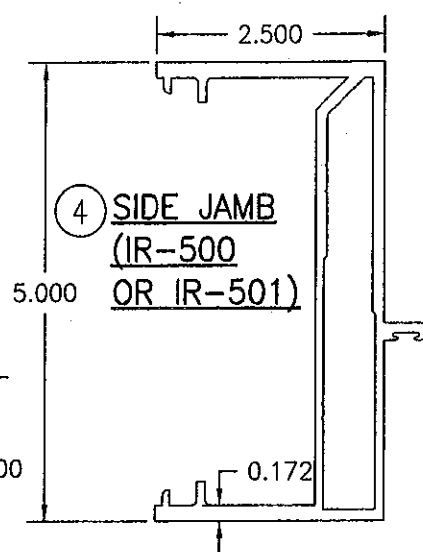
1B ALTERNATE HEAD JAMB (IR-501)



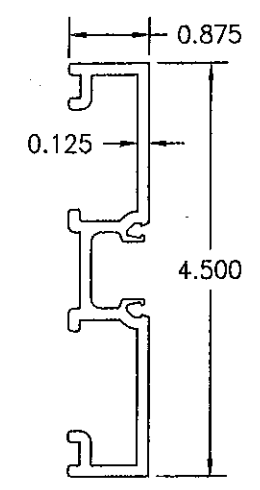
3A HEAD JAMB (TRIFAB 450)



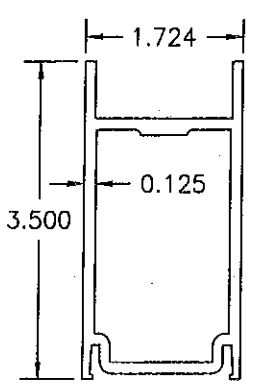
3B HEAD JAMB (TRIFAB 451)



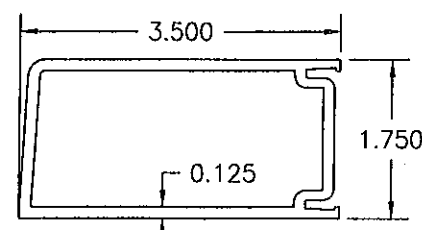
4 SIDE JAMB (IR-500 OR IR-501)



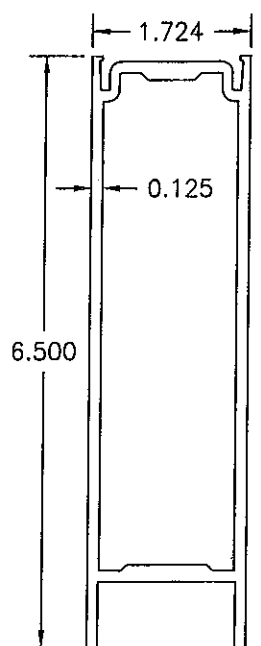
5 SIDE JAMB



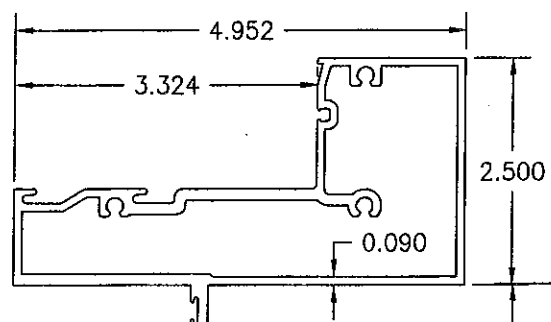
6 DOOR HEAD RAIL



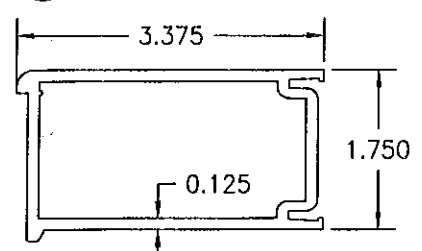
8 DOOR STILE (APPLICABLE WITH BUTT & PIVOT HINGES)



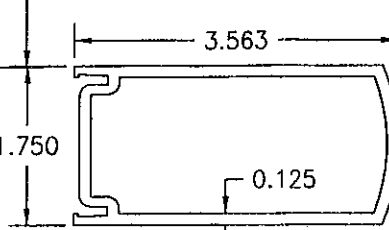
7 DOOR SILL RAIL



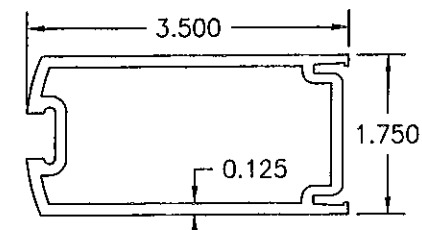
2 HEAD JAMB (IR-501)



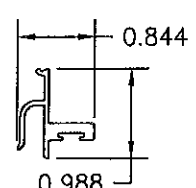
9 DOOR STILE (APPLICABLE WITH CONTINUOUS HINGE)



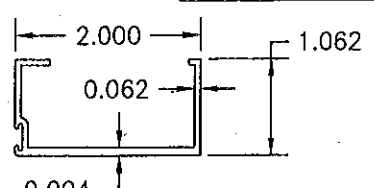
10 INACTIVE DOOR MEETING STILE



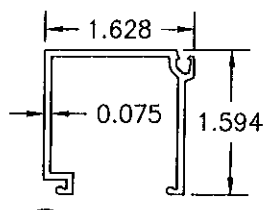
11 ACTIVE DOOR MEETING STILE



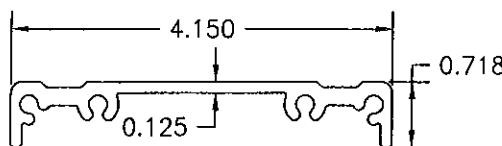
19A SIDE JAMB DOOR STOP



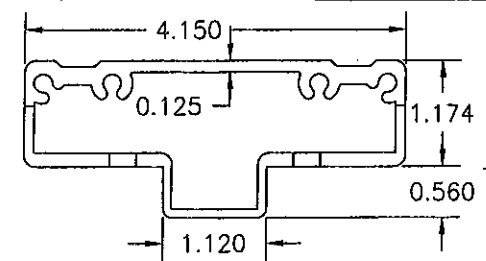
19B HEAD JAMB DOOR STOP (IR-500/501 & TRIFAB 451)



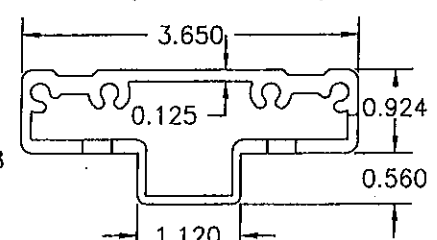
15 GLASS STOP (IR-501)



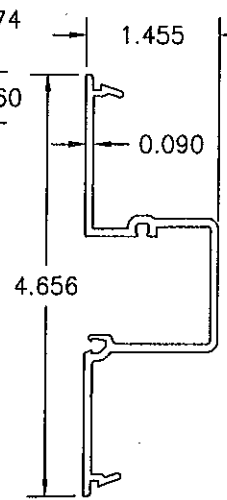
16A SHEAR BLOCK (TRIFAB 450)



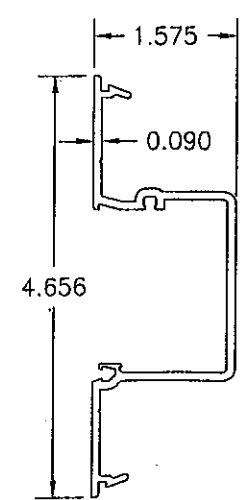
16B SHEAR BLOCK (TRIFAB 451)



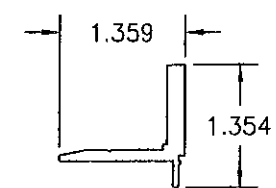
16C SHEAR BLOCK (IR-500/501)



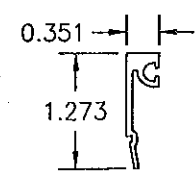
17 DEEP POCKET FILLER (IR-500)



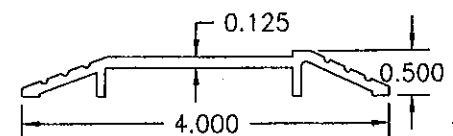
18 DEEP POCKET FILLER (IR-501)



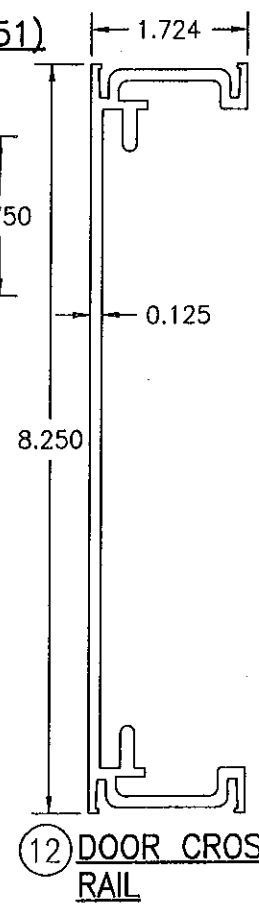
21 EXTERIOR DOOR GLASS STOP



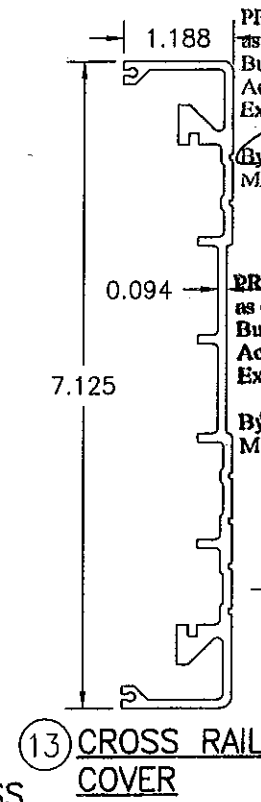
20 EXTERIOR DOOR GLASS STOP (USED WITH GLAZING DETAIL 1)



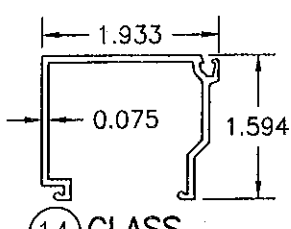
22 DOOR THRESHOLD



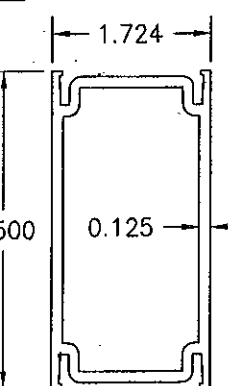
12 DOOR CROSS RAIL



13 CROSS RAIL COVER



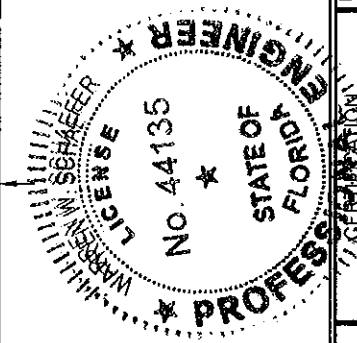
14 GLASS STOP (IR-500)



23 MID-RAIL

PRODUCT REVISED
as complying with the Florida
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Acceptance No. 11-1013.03
Expiration Date 02/08/2017
By *[Signature]*
Miami Dade Product Control

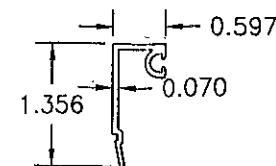
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 11-0228.04
Expiration Date 02/08/2017
By *[Signature]*
Miami Dade Product Control



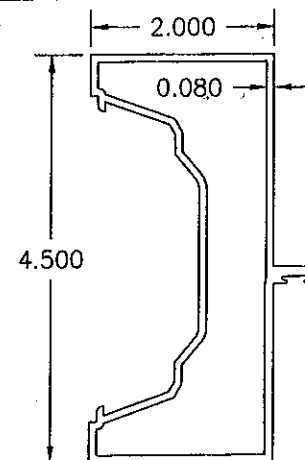
DRAWN BY: W.R.M.		CHECKED BY: W.N.S.	
PLOT: 1=2		DATE: 11/10/05	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: 350IR OUTSWING ALUMINUM STOREFRONT DOORS WET GLAZED			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418		555 GUTHRIE COURT, NORCROSS, GA 30092	
PHONE: 561-744-3424		770-449-5555	
DRAWING NO. 1460		REV. D	
SHEET NO. 9		OF 10	

ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1A	575-022	HEAD JAMB (IR-500)	6063-T6 ALUMINUM
1B	575-162	ALTERNATE HEAD JAMB (IR-500/501)	6063-T6 ALUMINUM
2	575-122	HEAD JAMB (IR-501)	6063-T6 ALUMINUM
3A	450-502	HEAD JAMB (TRIFAB 450)	6063-T6 ALUMINUM
3B	451-079	HEAD JAMB (TRIFAB 451)	6063-T6 ALUMINUM
4	575-051	SIDE JAMB (IR 500-OR IR-501)	6063-T6 ALUMINUM
5	163-036	SIDE JAMB (1600 DR JB ADAPTOR)	6063-T6 ALUMINUM
6	200-023	DOOR; TOP RAIL	6063-T6 ALUMINUM
7	200-032	DOOR; BOTTOM RAIL	6063-T6 ALUMINUM
8	200-005	DOOR STILE (APPLICABLE WITH BUTT & PIVOT HINGES)	6063-T6 ALUMINUM
9	200-012	DOOR STILE (APPLICABLE WITH CONTINUOUS HINGES)	6063-T6 ALUMINUM
10	200-007	INACTIVE DOOR MEETING STILE	6063-T6 ALUMINUM
11	200-006	ACTIVE DOOR MEETING STILE	6063-T6 ALUMINUM
12	233-013	DOOR CROSS RAIL	6063-T6 ALUMINUM
13	033-105	CROSS RAIL COVER	6063-T6 ALUMINUM
14	575-004	GLASS STOP (IR-500)	6063-T6 ALUMINUM
15	575-104	GLASS STOP (IR-501)	6063-T6 ALUMINUM
16A	450-103	SHEAR BLOCK (TRIFAB 450)	6063-T6 ALUMINUM
16B	451-141	SHEAR BLOCK (TRIFAB 451)	6063-T6 ALUMINUM
16C	400-140	SHEAR BLOCK (IR-500/501)	6063-T6 ALUMINUM
17	575-035	DEEP POCKET FILLER (IR-500)	6063-T6 ALUMINUM
18	575-135	DEEP POCKET FILLER (IR-501)	6063-T6 ALUMINUM
19A	450-520	SIDE JAMB DOOR STOP	6063-T6 ALUMINUM
19B	041-045	HEAD JAMB DOOR STOP (451 & 500/501)	6063-T6 ALUMINUM
20	575-043	EXTERIOR DOOR GLASS STOP (USED WITH GLAZING DETAIL 1)	6063-T6 ALUMINUM
21	575-045	INTERIOR DOOR GLASS STOP	6063-T6 ALUMINUM
22	069-139	DOOR THRESHOLD	6063-T6 ALUMINUM
23	200-058	MID-RAIL	6063-T6 ALUMINUM
24	575-041	EXTERIOR DOOR GLASS STOP (USED WITH GLAZING DETAIL 2)	6063-T6 ALUMINUM
25	451-064	SIDE JAMB (TRIFAB 450/451)	6063-T6 ALUMINUM
26	450-126	FLAT FILLER SHIM SUPPORT (TRIFAB 450/451)	6063-T6 ALUMINUM
SEALS AND SEALANTS			
27	027-078	DOOR BULB WEATHERING	ALCRYN
28	027-563	FIXED DOOR GASKET	EPDM
29	127-041	GLAZING TAPE / SILICONE SPACER	SEMI-RIGID POLYURETHANE FOAM
30	027-342	DOOR SETTING BLOCK	NEOPRENE
31	200-795	DOOR BOTTOM RAIL WEATHER SWEEP	VARIED
32	200-497	ADJUSTABLE ASTRAGAL WEATHERING	VARIED
33	-	COMPRESSION TAPE	3M
HARDWARE			
36	050-821	CONTINUOUS GEAR HINGE	HAGER/ROTON
37	037-232	BUTT HINGE (4 PER PANEL)	HAGER
38	050-322	TOP OFFSET PIVOT HINGE	KAWNEER
	050-331	INTERMEDIATE OFFSET PIVOT HINGE	
	050-326	RH BOTTOM OFFSET PIVOT HINGE	
	050-327	LH BOTTOM OFFSET PIVOT HINGE	
39	-	ACTIVE DOOR LOCK ASSEMBLY	ADAMS-RITE 1850 3-POINT LOCK SYSTEM WITH KAWNEER'S CYLINDER,

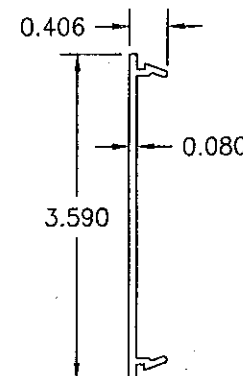
ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
		HARDWARE CONTINUED	THUMBTURN & PUSH PACKAGE
40	50-079	INACTIVE DOOR TOP FLUSH BOLT	ADAMS-RITE 1850 FLUSH BOLT
	50-075	INACTIVE DOOR BOTTOM FLUSH BOLT	SYSTEM WITH KAWNEER'S PUSH PACKAGE
41	-	ACTIVE DOOR LOCK ASSEMBLY	ADAMS-RITE MS 1850 3-POINT LOCK SYSTEM WITH KAWNEER'S CYLINDER, THUMBTURN & PUSH PACKAGE
42	-	INACTIVE DOOR LOCK ASSEMBLY	ADAMS-RITE 2180 2-POINT LOCK SYSTEM WITH KAWNEER'S PUSH PACKAGE
43	50-079	INACTIVE DOOR TOP FLUSH BOLT	BY ADAMS-RITE
44	50-075	INACTIVE DOOR BOTTOM FLUSH BOLT	BY ADAMS-RITE
45	-	CONCEALED ROD EXIT/PANIC DEVICE	JACKSON 2086
46	-	CONCEALED ROD EXIT/PANIC DEVICE	KAWNEER 1686
47	-	CONCEALED ROD EXIT/PANIC DEVICE	SARGENT 8400
48	-	CONCEALED ROD EXIT/PANIC DEVICE	PANELINE CR-90
49	-	CONCEALED ROD EXIT/PANIC DEVICE	SARGENT AD8400
50	-	CONCEALED ROD EXIT/PANIC DEVICE	VON DUPRIN 9947
51	-	CONCEALED ROD EXIT/PANIC DEVICE	CALIBRE 9100
52	-	CONCEALED ROD EXIT/PANIC DEVICE	ADAMS RITE G86
		MISCELLANEOUS FASTENERS	
55	-	NO. 12 X 2" SCREW	3" FROM ENDS & MAX. 11" O.C.
56	-	NO. 12-24 X 9/16" S.S SCREW	8 PER HINGE
57	-	NO. 12-24 X 13/32" SCREW	2 9/16" FROM ENDS & MAX. 5 1/8" O.C. (52 MAX. PER HINGE)
58	-	5/16"-18 X 5/8" SCREW	2 PER TOP PIVOT HINGE
59	-	NO. 12-24 X 9/16" S.S SCREW	2 PER INTERMEDIATE PIVOT HINGE
60	-	1/4-20 X 3/8" SCREW	3 PER BOTTOM PIVOT HINGE
61	-	NO. 6 X 11/16" SCREW	10 PER LEAF
62	-	NO. 10 X 9/16" S.S SCREW	2 PER CLIP
63	-	NO. 10 X 1 19/32" S.S. SCREW	4 PER CLIP
64	-	NO. 10 X 1/2" S.S. SCREW	3" FROM ENDS & MAX. 7 1/2" O.C. AT TOP & BOTTOM RAILS - 3" FROM ENDS & MAX. 11 1/8" O.C. AT STILES
65	-	NO. 6 X 3/4" S.S. SCREW	1/4" FROM ENDS & MAX. 9 17/32" O.C.
66	-	NO. 10 X 1 5/8" FHTF "B" SCREW	1" FROM ENDS & MAX. 16" O.C.



24 EXTERIOR DOOR GLASS STOP (USED WITH GLAZING DETAIL 2)



25 SIDE JAMB (TRIFAB 450/451)



26 FLAT FILLER SHIM SUPPORT (TRIFAB 450/451)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1013.03
Expiration Date 02/08/2017
By *[Signature]*
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 11-0228.04
Expiration Date 02/08/2017
By *[Signature]*
Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 11/10/05	
DATE	BY	REVISION DESCRIPTION	NO.
350IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
DRAWING TITLE 350IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED DATE MAR 23 2011 DRAWING NO. 1460 SHEET NO. 10 OF 10 REV. D			